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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 3

**Complete if Known**

Application Number	09/852,401
Filing Date	May 9, 2001
First Named Inventor	Rosenberg, Louis B.
Art Unit	2675
Examiner Name	Nguyen, Chanh Duy
Attorney Docket Number	021360-010520US

**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CAN	AA	US-3,220,121	11/30/1965	Cutler	
	AB	US-3,517,448	08/30/1970	Canyon et al.	
	AC	US-3,903,614	09/09/1975	Diamond et al.	
	AD	US-4,236,325	10/02/1980	Hall et al.	
	AE	US-4,513,235	04/23/1985	Acklam et al.	
	AF	US-4,599,070	07/08/1988	Hladky et al.	
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	AH	US-4,708,656	11/24/1987	De Vries et al.	
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	AJ	US-4,891,764	01/02/1990	McIntosh	
	AK	US-5,019,761	05/28/1991	Kraft	
	AL	US-5,022,407	06/11/1991	Horch et al.	
	AM	US-5,146,566	09/08/1992	Hollis et al.	
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	AR	US-5,275,174	01/04/1994	Cook	
	AS	US-5,785,630	07/28/1998	Bobick et al.	
	AT	US-B1 5,275,174 (RE)	08/04/1998	Cook	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
CAN	AU	WO	WO01/11775	A1	02/15/2001	Peter Gold		<input type="checkbox"/>

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Signature

CHANH NGUYEN

Date  
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Sheet

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Application Number	09/852,401
Filing Date	May 9, 2001
First Named Inventor	Rosenberg, Louis B.
Art Unit	2875
Examiner Name	Nguyen, Chanh Duy
Attorney Docket Number	021380-010520US

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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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CON	AV	ZAN et al., "Manual resolution of Compliance When Work and Force Cues are Minimized," DSC - Vol. 49, Advances in Robotics, Mechatronics and Haptic Interfaces ASME 1993, The American Society of Mechanical Engineers, pp. 99-104, (11/28-12/03/1993)	
	AW	ADELSTEIN et al., "Human Machine Interfaces for Teleoperators and Virtual Environments, NASA Conference Publication 10071, N95-14042, pp. 108-113, (03/04-09/1990)	
	AX	ADELSTEIN et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, pp. 1-12, (1992)	
	AY	BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-264, (November 6-8, 1990)	
	AZ	IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1383-1/93 IEEE, pp 287-292, (1993)	
	BA	IWATA et al., "Volume Haptization," 0-8185-4910-0/93 IEEE, pp. 18-23, (1993)	
	BB	IWATA, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4 - ACM-0-89791-344-2/90/008/0165, pp. 165-170, (August 1990)	
	BC	RUSSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, (May 1990)	
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	BE	BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28559, pp. 1-84, (03/1/1985)	
	BF	JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, (1990)	
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	BH	SNOW et al., "Compact Force-Reflecting Hand Controller," NASA TechBriefs, April, 1991, Volume 5, Number 4, p. 88, (April 1991)	
	BI	SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. MPO-17851; JPL Case No. 5348, pp. 1-4, (06/15/1989)	

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Date

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Sheet **3** of **3****Complete if Known**

Application Number	09/852,401
Filing Date	May 8, 2001
First Named Inventor	Rosenberg, Louis B.
Art Unit	2675
Examiner Name	Nguyen, Chanh Duy
Attorney Docket Number	021360-010520US

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CN	BJ	BEJCZY et al., "Controlling Remote Manipulators Through Kinesthetic Coupling," Computers in Mechanical Engineering NT Control No. MPO-17851; JPL Case No. 5348 Attachment, pp. 48-61, (July 1983)	
	BK	TOWNSEND "Model-X Force-reflecting Hand Controller," NT Control No. MPO-17851; JPL Case No. 5348 Attachment, pp. 1-17, (08/20/1987)	
	BL	KOTOKU, "A Predictive Display with Force Feedback and Its Application to Remote Manipulation System with Transmission Time Delay," 0-7803-0737-2/92 1992 © IEEE, pp. 239-246, (07/07-10/1992)	
	BM	KOTOKU et al., "Environment Modeling for the Interactive Display (EMID) used in Telerobotic Systems," IEEE Cat. No. 91TH0375-6, pp. 999-1004, (11/03-05/1991)	
	BN	HIROTA, et al., "Development of Surface Display," 0-7803-1363-1/93 © 1993 IEEE, pp. 256-262, (1993)	
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	BS	GOTOW et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337	
	BT	STANLEY et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, Advances in Robotics, pp. 65-61, (1992)	
	BU	RUSSO, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, (1992)	
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	BW	WRIGHT, "A Manufacturing Hand," ISSN 0738-5845/85 (704), pp. 13-23, (1985)	

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Sheet 1 of 3

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Application Number	09/852,401
Filing Date	May 9, 2001
First Named Inventor	Rosenberg, Louis B.
Art Unit	2675
Examiner Name	Nguyen, Chanh Duy
Attorney Docket Number	IMM1P005B

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**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
CAN		3,157,853	11/17/1964	Hirsch	
		3,497,668	2/24/1970	Hirsch	
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		6,422,941	7/23/2002	Thorner et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
CAN	BI	EP	EP0349086	1/3/1990	Visser	

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		Art Unit	2675
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		Attorney Docket Number	IMM1P005B
Sheet	2	of	3

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CM		KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993.	
		PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990.	
		ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989.	
		BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980.	
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		MINSKY, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995.	
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		RABINOWITZ et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contactor area," Journal of The Acoustical Society of America, Vol. 82, No. 4, October 1987.	

Examiner Signature	CHANH NGUYEN	Date Considered	11/12/02
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CM		BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.	
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		OUH-YOUNG, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995.	
		MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8-11, 1994.	
		BEJCZY, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413-3/87/0000/0318501.00 1987 IEEE, 1987.	

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